


**FORM IV**  
**(Refer regulation 7(2))**  
**Bureau of Energy Efficiency**  
**REGISTER CONTAINING NAMES OF OFFICES AND FIRMS OF ACCREDITED**  
**ENERGY AUDITORS**

Serial Number ( AEA- 0195)		As on:- 09/10/2014	
<b>A.</b>			
1	Name of accredited energy auditor	Shri Joydeep Banerjee	
2	Father's name	Late Mr Deepak Kumar Banerjee	
3	Date of certification as Energy Manager	ENERGY AUDITOR 30th July 2009	
4	Date of passing the examination in "Energy Performance Assessment for Equipment and Utility Systems"	24th May 2009	
5	Examination Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	EM-1094 EA-11106	
6	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	CEA-11106	
7	Date of issue of accreditation certificate	( to be filled by BEE)	
<b>B. Information in respect of trade name or firms' name</b>			
8	Trade name / firms name under which energy audit is proposed to be conducted	Larsen & Toubro Limited	
9	Date of accreditation as accredited energy auditor	( to be filled by BEE)	
10	Type of firm/ private/ Government /	Private	

	NGO etc.	
11	Name of contact person along with designation, address, telephone, mobile and fax number along with STD codes and email address ( All details compulsory)	Mr. R. Ravichandran Head- Energy management  Address: Larsen & Toubro, E&A North Wing, Level 4, Gate no 7, Powai Campus, Saki Vihar Road, Mumbai - 400 072  Phone : 022- 67053050 Mobile: 9967354330 Fax No: 022 -67051195 Email : <a href="mailto:Ravichandran.R@LNTEBG.com">Ravichandran.R@LNTEBG.com</a>
12	Professional postal address with Pin Code of the accredited energy auditor	Same as Sl. No 11
13	E-mail address	Joydeep.Banerjee@LNTEBG.com
14	Telephone numbers . with STD Code (R) (O) Mobile no:	(O): 022-67055047 Mobile: 9167006496
15	Year of establishment of the trade name / firms' name for undertaking the energy audit	1946
16	Year of commencement of energy audit of the firm	2010
17	Whether any certificate to support the excellence in the system has been obtained (ISO etc.)	BEE Grade – 1 ESCO ISO 9001:2008 ISO 14001 OHSAS 18001 NABL ACCREDITATION CERTIFICATES FOR Electrical Testing, Mechanical Testing, Electrical Technical Calibration, Mechanical Calibration
18	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	TWENTY FOUR  (DETAILS GIVEN AT THE END OF THIS FORM)
<b>C</b>	<b>Details of Associated Energy Experts</b>	
19	Number of resource persons available	6

<p>20</p>	<p>I. Number. of full-time energy auditors in position with work experience of all energy auditors associated with the firm</p>	<p>1. <b>Mr. P.B.Bellary</b></p> <p><b>Qualification:</b> BE in <b>Electrical</b> Engineering, MBA</p> <p><b>Experience:</b>  21 years' experience in Electrical Industry with exposure to LV distribution &amp; Control system. Experience in Strategic Planning and Financial Management. Have participated in Harmonic audits &amp; Energy Audits of Engineering units, Railway workshops, Automobile units, soft drink units, commercial &amp; IT buildings, Hospitals</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (CEA-11511)</i></p> <p>2. <b>Mr. Joydeep Banerjee,</b></p> <p><b>Qualification:</b> B.E in Industrial Engineering, P.G Diploma in Energy management</p> <p><b>Experience:</b> 9 years' experience in Energy Audits of , Engineering units, Automobile units, soft drinks/beverage, foundry, cable manufacturing, commercial &amp; IT buildings, Steel, Cement, Power Plant, Pharmaceuticals, Food Products, Refractory, Rubber Products</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (CEA-11106 )</i></p> <p>3. <b>Mr. Sanjay Aggarwal</b></p> <p><b>Qualification:</b> B.TECH in Electrical Engineering, &amp; BBA P Graduation – MMM, &amp; PGDBM</p> <p><b>Experience:</b> 20 years' experience in Electrical Industry with knowledge on Industrial Automation, Power Systems, Reactive Power Management &amp; Harmonics, Protection Relays, Metering Solutions, Switchgears Selection. Have done Harmonic Studies / Audits &amp; Energy Audits of Engineering units, Automobile Units, Soft drinks / Beverage, Commercial &amp; IT Buildings,</p> <p><i>Certified Energy Auditor by Bureau of Energy</i></p>
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		<p><i>Efficiency (BEE) India (CEA-8337 )</i></p> <p><b>4. Mr. Prasad V. Kulkarni</b></p> <p><b>Qualification:</b> B.E in Electrical Engineering,</p> <p><b>Experience:</b> 5 years' experience <i>in</i> LV Switchgear, final distribution Products, IBMS Products &amp; BBT, Energy Audits and power quality audits, conducted 5 energy audits &amp; harmonic analysis.</p> <p><i>Certified Energy Auditor by Bureau of Energy Efficiency (BEE) India (CEA-8337 )</i></p>
	<p>II. No. of part-time energy auditors in position during the current year / previous year associated with the energy auditor / energy auditor's firms.</p>	<p>NIL</p>
21	<p>Sectors in which the energy auditor/ energy audit firm has conducted energy audits since inception</p>	<p>Automobile Industry, Engineering Industries, Electrical Cable/Wire Drawing, Indian Railways Workshop ,Soft Drink Manufacturing Commercial Office Building, Malls Infotech Building , Datacentre , Hospital, Tyre Industry, Agro Industries (Fish Feed,Polutry Feed), Iron Ore Mines, Pharmaceuticals</p>
22	<p>Subject wise expertise</p>	<ul style="list-style-type: none"> <li>• Reactive Power Compensation &amp; Harmonics</li> <li>• Drives &amp; Automation</li> <li>• Motors</li> <li>• Electrical Switchgears</li> <li>• Building Automation</li> <li>• Metering &amp; EMS</li> <li>• DG Synchronisation</li> <li>• HVAC</li> <li>• Lighting</li> <li>• Pumping</li> <li>• Cooling Towers</li> <li>• Compressors</li> <li>• Boilers &amp; Steam network</li> </ul>

		<ul style="list-style-type: none"> <li>• Fans &amp; Blowers</li> <li>• Energy Conservation Measure with financial analysis of payback period</li> <li>• Training in Energy efficiency</li> <li>• Assistance in implementation of ECMs in electrical field</li> </ul>
(a)	Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil. Bureau of Energy Efficiency will be calling for detailed information in case agency has listed its energy audit expertise in the process systems	NIL
(b)	Energy audit thermal utility system (list sectors)	CONTINUOUS FURNACES (AUTO COMPONENT MANUFACTURING) GAS CARBURIZING FURNACE (AUTO COMPONENT MANUFACTURING) HOT WATER GENERATION SYSTEM (AUTOMOBILE MANUFACTURING)
(c)	Energy audit electrical utility system (list sectors)	ELECTRICAL DISTRIBUTION, COMPRESSORS, FANS, BLOWERS, COOLING TOWERS, HVAC SYSTE, PUMPS & MOTORS & DG SETS IN VARIOUS SECTORS MENTIONED ABOVE
23	Instruments available	
	(a) Electrical (list the name of the instruments)	3 Phase Power Analyzer Power meter Digital tachometer
	(b) Thermal (list the name of the instruments)	Ultra Sonic liquid flow meter Telescopic Vane type anemometer Pitot Tube (L Types) Thermal Imaging Camera Infrared Thermometer Thermo couple 4 - Channel temperature data logger Thermohygrometer with datalogging Combustion Analyser Digital Manometer Bourdon Type Dial Pressure gauges Lux Meter

		Water pH Tester ultrasonic leak detector	
24 (i)	Details of training programme/ seminars/ workshops conducted during the last 3 years in the field of energy efficiency / energy audit	Presented on energy management in ELECARAMA 2012	Location: Mumbai
(ii)		Training on Energy Conservation at L&T Technology Conclave	Location : L&T Training Centre (6 programs for senior management of customers)
(iii)		Training on Energy management	TATA Motors Lucknow
iv)		Presented at conference on Energy Management for Cost Reduction	Location: Nashik Organized by CII
v)		Presented at conference on energy management	Location: Sangli. Organized by Rotary club of Krishna Valley
vi)		Training on energy management	Mahindra & Mahindra Limited Haridwar during energy conservation week 2013

<b>D</b>	<b>Remarks( if any)</b>

(Note: Responsibility of the authenticity of the above information rests with the concerned energy auditor/energy auditing agency.)

ENCL: List & Address of L&T Branches across India

## Electrical Standard Products (ESP) Branch Offices:

### REGISTERED OFFICE AND HEAD OFFICE

L&T House, Ballard Estate  
P. O. Box 278  
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Fax: 022-67525858  
Website: www.Larsentoubro.com

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